

## ABSTRACT

### CONTROLLABLE TWO-PHASE NETWORK WITH AMPLITUDE COMPENSATION

A controllable two-phase network for production of two output signals at two loads with identical load impedances from an input signal from a source containing a phase path for production of a first output signal, and an amplitude path for production of a second output signal, from the input signal. The phase path contains a trimming resistance and a trimming capacitance in order to influence the phase shift between the input signal and the first output signal. The amplitude path contains a compensation circuit for matching the amplitude of the second output signal to the amplitude of the first output signal. In particular, the two-phase network is designed such that the two output signals have the same amplitude, and the phase of the first output signal has a constant phase shift with respect to that of the second output signal.